

ROTHWELL URBAN DISTRICT COUNCIL.

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REPORT

OF

ROBERT STEVENSON, Esq.,

MEDICAL OFFICER OF HEALTH.


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1903.

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ROTHWELL :  
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# Rothwell Urban District Council.

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## ANNUAL REPORT, 1903.

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To the Chairman and Members of the Rothwell Urban District Council.

GENTLEMEN,

I beg to submit for your consideration the following Report of the Health and Sanitary condition of the Rothwell Urban District for the year ending 31st December, 1903.

### Population.

From the Tables on page 10 you will observe that there are now 2,772 houses in occupation in your District, an increase of 59 during the past twelve months, and taking the number of inhabitants per house to be the same as last year, I estimate the population at 13,000, and the various rates set forth in the following Report are estimated accordingly.

### Births.

The total number of births registered during the past twelve months amounted to 454, and consisted of 232 males and 222 females. Last year the registered births numbered 398. The births recorded in the Sub-Registration District of Rothwell numbered 273, and comprised 140 males and 133 females. In the Sanitary District of Rothwell situated in the Sub-Registration District of Ardsley, the births recorded amounted to 181, and comprised 92 males and 89 females. Compared with last year there is an increase in the births registered in Rothwell and Stourton to the extent of 55, and in Lofthouse-with-Carlton and Thorpe there is also an increase of 1.

### Birth Rate.

The birth-rate for the entire District is 34·92 per thousand inhabitants, as against 31·28 last year and 36·6 in 1891.

### Illegitimate Births.

The illegitimate births numbered 8, and comprised 3 males and 5 females. Five of the above number belong to Rothwell; North and South Wards, and the remaining 3 to the Carlton Ward. The illegitimate births are in the proportion of 1 in 56 of all the births registered. Last year the proportion was 1 in 30, and in 1901 it was 1 in 33.

### Deaths.

The total number of deaths registered for the entire district during the twelve months ending 31st December last numbered 215, and comprised 111 males and 104 females. The number registered in Rothwell Sub-Registration District numbered 71 males and 58 females. The number registered in the Ardsley Sub-Registration portion of your district numbered 85, and comprised 40 males and 46 females. The total number of deaths registered last year amounted to 193.

### Death Rate.

The death-rate is 16·53 per thousand inhabitants as against 15·17 last year, and 16·02 in 1891. Forty-nine per cent of the registered deaths consisted of children under five years of age, and 14 per cent were those of persons aged 65 years and upwards. The corresponding numbers for last year were 53 and 15 respectively.

### Infant Mortality.

Seventy-eight of the registered deaths were those of infants under one year of age. The infant mortality or the proportion of deaths under the age of one year to registered births is 171 per thousand and is 35 per cent of the deaths at all ages. Last year the infant mortality was 183, and in 1901 it was 158. In my last Report I drew your attention to the excessive infant mortality in the Stourton Ward as compared with the other Wards, and though during the past twelve months there has been a marked decrease, the deaths of infants under one year of age, still remain abnormally high in this portion of your district.

### Inquests.

Twenty-five Inquests were held during the past twelve months. Seven of the above were held in the North Ward, 3 in the South Ward, 8 in the Stourton Ward, 5 in the Carlton Ward, and 2 in the Lofthouse Ward. The causes of death were returned as follows:— Killed 5, Drowned 5, Heart Disease 6, Bronchitis 2, Convulsions 2, Dentition 1, Tuberculosis 1, Meningitis 1, Acute Dyspepsia 1, and Cut Throat 1.

### Zymotic Diseases.

Thirty-four deaths were registered as due to the following Zymotic Diseases, viz., Diphtheria 9, Diarrhoea 7, Typhoid Fever 6, Whooping Cough 5, Measles 4, Scarlet Fever 2, and Erysipelas 1.

### Zymotic Death Rate.

The Zymotic Death Rate is 2·61 per thousand inhabitants as against 1·25 last year and 1·85 in 1901. All the deaths from Diphtheria were in the Stourton Ward, and 3 of the 7 deaths from Diarrhoea were also in this Ward. Four of the 6 deaths from Typhoid Fever were in the Lofthouse Ward, and 3 of the 4 deaths from Measles were also in this Ward.



### Notification of Infectious Diseases.

During the year ending 31st December last 145 cases of Infectious Diseases were notified as compared with 91 last year and 120 in 1901. They were as follows: Scarlet Fever 56, Typhoid Fever 29, Diphtheria 44, Erysipelas 12, Membranous Croup 2, Small-pox 1, and Continued Fever 1. Of the above 13 belonged to the North Ward, 23 to the South Ward, 37 to the Stourton Ward, 50 to the Lofthouse Ward and 22 to the Carlton Ward. The following table gives particulars as to the numbers of the different infectious diseases belonging to each Ward :—

				Scarlet Fever	Typhoid Fever	Diphtheria	Erysipelas	Small Pox	Total 1903	Total 1902	Total 1901	Total 1900
North Ward	...	...	...	7	4	3	2	...	13	22	20	22
South Ward	...	...	...	9	6	4	3	...	23	18	35	20
Stourton Ward	...	...	...	4	5	23	4	1	37	25	15	13
Lofthouse Ward	...	...	...	22	15	10	3	...	50	13	36	45
Carlton Ward	...	...	...	14	3	6	...	...	22	13	14	26
Total 1903	...	...	...	56	30	46	12	1	145			
Total 1902	...	...	...	38	19	21	13	0	91			
Total 1901	...	...	...	31	24	49	11	8	120			
Total 1900	...	...	...	54	7	53	12	0	126			

I have grouped Membranous Croup along with Diphtheria, one case being notified from the South Ward and the remaining one from the Lofthouse Ward. The case of Continued Fever was notified from the Stourton Ward and this I have grouped with Typhoid Fever.

#### Scarlet Fever.

During the twelve months ending 31st December last, 56 cases of Scarlet Fever were notified as against 38 last year and 31 in 1901. Two cases proved fatal, as against 1 last year and 1 in 1901. The cases notified were located as follows :—North Ward 7, South Ward 9, Stourton Ward 4, Lofthouse Ward 22, and Carlton Ward 14. In December 1902, with the exception of two cases in the Stourton Ward, your district was free from Scarlet Fever. In January 1903, other two cases were notified from the Stourton Ward, and since then only two other cases have been notified from that Ward, one in September and one in December. In the North and South Wards the disease was confined to a few houses and the cases were notified at irregular intervals during the whole year, the first case in nearly all the houses being an infested one. One of the cases in the South Ward proved fatal. Thirty-six out of the 56 cases notified were in the Lofthouse-cum-Carlton portion of your district, 11 of these being in

Thorpe, 8 in Spurr Row and 5 in Pawson's Houses. The first case in Thorpe contracted the disease at school in Ardsley, and several of the others caught the infection at the same school. From Thorpe the disease spread to Aaran Green Hill, and from thence to Lofthouse. The origin of the outbreak at Spurr Row could not be traced and as most of the cases there were exceptionally mild and several were never notified nor seen by a medical man, the disease was carried to the school and from thence spread to the other parts of the Lofthouse-cum-Carlton Wards. The other fatal case was in the Lofthouse Ward.

### **Typhoid Fever.**

Thirty cases of Typhoid Fever were notified during the twelve months ending December 31st, 1903, as against 19 cases in 1902, and 21 in 1901. Six of the above proved fatal, as against 4 in 1902, and 6 in 1901. The cases notified were located as follows:—North Ward 1, South Ward 6, Stourton Ward 5, Lofthouse Ward 15, and Carlton Ward 3. The fatal cases were located as follows:—North Ward 1, South Ward 1, Lofthouse Ward 4. Both the fatal cases in the Rothwell Wards, 1 in January and the other in November, had been ill for several weeks before the disease was notified and both died soon after notification, so that evidently the disease supervened on some previous illness. In the Lofthouse Ward the disease assumed epidemic form and during the months of August, September and October 14 cases were notified. In Thorpe portion of this Ward the disease broke out in August, and two of the first persons attacked had been from home visiting friends and returned ill. All the cases were members of three families. One was removed to hospital and one treated at home died from Phthisis, two months after being notified as Typhoid Fever. Of the 10 cases notified from Pawson's New Houses in the Lofthouse Ward, 8 were relations living in two houses within a few doors of each other. Three of these cases proved fatal. In many instances I find that cases notified as suffering from Typhoid Fever have been under treatment for two or three weeks previous to notification and during this period no precautions whatever have been taken, the bedroom slops being frequently emptied into the ashpit, the contents of which have been thrown on to the street previous to removal and no special disinfection has been made. A Special Report on the outbreak of Typhoid Fever at Thorpe and Pawson's New Houses, full particulars of which had previously been furnished to your Sanitary Committee, was supplied to the County Medical Officer.

### **Measles.**

Four deaths were recorded as due to Measles for the year ending 31st December, 1903, as against 5 in 1902, and 3 in 1901. As in former years the deaths due to measles and its complications form a large proportions of the deaths recorded as due to Zymotic Diseases. In the end of November the disease broke out in Lofthouse and assumed



epidemic form, necessitating the closing of the Church Schools in that Ward. Three of the four deaths from Measles belong to Lofthouse; the remaining one belonging to Carlton.

### **Whooping Cough.**

Five deaths were recorded as due to Whooping Cough and its complications for the year ending 31st December, 1903, as against 1 in 1902, and 4 in 1901. This disease appeared at different intervals throughout the year and was prevalent more or less throughout your entire district. The fatal cases were located as follows:— North Ward 1, South Ward 1, Carlton Ward 2, and Lofthouse Ward 1.

### **Small Pox.**

One case of Small Pox was notified from Upper Goslem in the Stourton Ward, on September 30th. The girl attacked wrought in a mill in Hunslet and contracted the disease from a fellow worker. The above case was at once removed to the Sty Bank Hospital and the remaining members of the family were isolated in their own home and all were re-vaccinated. No other member of the family which consisted of 6, in addition to the one attacked, contracted the illness. This case which was quite a typical one, had 3 large and distinct vaccination marks, but she had not been re-vaccinated.

### **Diphtheria.**

Forty-six cases of Diphtheria were notified during the twelve months ending December 31st, 1903, against 21 cases in 1902, and 29 in 1901. The cases notified were located as follows:— North Ward 3, South Ward 3, Stourton Ward 23, Lofthouse Ward 9, and Carlton Ward 6. Nine of the above cases proved fatal, as against none last year and 9 in 1901. All the fatal cases belonged to the Stourton Ward. I wish to draw special attention to the fact that there were 23 notifications of Diphtheria from the Stourton Ward and exactly the same number from all the other Wards combined, and that whilst 9 out of the 23 notified from Stourton proved fatal, there were no deaths out of the 23 located in the other four Wards. Another peculiarity is that 6 out of the 9 deaths in Stourton were located in those streets which abut on Pontefract Road and in the lower portions of the said streets close to Pontefract Road. In a Special Report which I prepared for the Local Government Board on the outbreak of Diphtheria which occurred in Stourton Ward in the months of July and August last, and with the particulars of which you were duly made acquainted, I drew particular attention to the fact that the unsatisfactory condition of the main sewer in Pontefract Road contributed largely to the excessive mortality from Diphtheria. In its present condition I consider this sewer a danger to the health of the inhabitants, and no effort should be spared to remedy an evil which is rapidly becoming worse. After careful consideration I came to the conclusion that the disease in this instance

was imported by children attending Stourton Schools and who resided in a neighbouring locality where Diphtheria was prevalent, and with the consent of your Sanitary Committee the Schools were closed for a period of three weeks. Antitoxin is now supplied by your Council to medical men for use in suitable cases free of charge.

### Erysipelas.

Twelve cases of Erysipelas were notified during the past twelve months as against 13 in 1902 and 11 in 1901. The cases notified were located as follows :—North Ward 2, South Ward 3, Stourton Ward 4, and Lofthouse Ward 3. One of the above proved fatal.

### Zymotic Deaths in various Wards.

	Scarlet Fever	Typhoid Fever	Diphtheria	Measles	Whooping Cough	Diarrhoea	Erysipelas	Total	Zymotic Death Rate
Urban District Area ... ..	2	6	9	4	5	7	1	34	2·61
North Ward ... ..	...	1	...	...	1	...	...	2	0·87
South Ward ... ..	1	1	...	...	1	1	...	4	1·56
Stourton Ward ... ..	...	...	9	...	...	3	...	12	4·26
Lofthouse Ward ... ..	1	4	...	3	1	1	1	11	4·07
Carlton Ward ... ..	...	...	...	1	2	2	...	5	1·88

### Births and Deaths in various Wards.

	BIRTHS.			DEATHS.			Total excess Births over Deaths.
	Males	Fe- males	Total.	Males	Fe- males.	Total.	
Urban District Area ...	232	222	454	111	104	215	239
North Ward ... ..	30	34	64	22	14	36	28
South Ward ... ..	64	56	120	19	18	37	83
Stourton Ward ... ..	46	43	89	30	26	56	33
Lofthouse Ward ... ..	56	47	103	27	30	57	46
Carlton Ward ... ..	36	42	78	13	16	29	49



Causes of, and ages at, death during the year 1903  
in various Wards.

CAUSES OF DEATH.	Deaths in or belonging to Localities (at all Ages).					
	N.W.	S.W.	St. W.	Lt.W.	Cn.W.	Total.
Measles ... ..	...	...	...	3	1	4
Scarlet Fever ... ..	...	1	...	1	..	2
Whooping-cough ... ..	1	1	...	1	2	5
Diphtheria ... ..	...	...	9	...	...	9
Typhoid Fever ... ..	1	1	...	4	...	6
Diarrhœa ... ..	}	1	3	1	2	7
Enteritis ... ..						
Erysipelas ... ..	...	...	...	1	...	1
Phthisis ... ..	...	...	4	3	1	8
Other tubercular diseases ... ..	1	6	3	4	3	17
Cancer ... ..	4	1	2	1	...	8
Bronchitis ... ..	5	7	6	6	6	30
Pneumonia ... ..	...	...	2	2	1	5
Other respiratory diseases ... ..	...	1	3	4	...	8
Alcoholism ... ..	...	...	...	1	...	1
Premature Birth ... ..	5	2	1	5	1	14
Heart diseases... ..	5	5	3	10	2	25
Accidents ... ..	2	..	7	...	1	10
Suicides ... ..	3	..	...	...	...	3
Congenital debility ... ..	1	2	4	2	1	10
Dentition Convulsions .	2	4	4	1	2	13
All other causes ... ..	6	5	5	7	6	29
Totals ... ..	36	37	56	57	29	215

The above is the history of Zymotic Disease in your District during the twelve months ending December 31st last. Every house from which a case of infectious disease was notified, was visited, and in every case disinfectants were supplied, defective drains or gullies repaired or reconstructed, sanitary defects made good, and proper means taken to prevent the disease from spreading.

The following statistics and Tables explain themselves :—

### Age at Death.

The following Table epitomises the ages at which deaths occurred in your district :—

Deaths under 1 year of age ...	...	...	78	} 107 under 5 years.
„ over 1 year and under 5 years ...	...	...	29	
„ „ 5 „ „ 15 „ ...	...	...	19	
„ „ 15 „ „ 25 „ ...	...	...	12	
„ „ 25 „ „ 65 „ ...	...	...	46	
„ „ 65 „ „ ...	...	...	31	

Total Deaths at all ages ... 215

The grouping into various ages is in accordance with the Schedules furnished by the Local Government Board, which are duly filled in and accompany this Report.

### Estimated Population, Number of Deaths, &c., with rates.

Year	Estimated Population	No. of Deaths	No. of Births	Death rate per 1000 inhabitants	Birth Rate per 1000 inhabitants	Deaths under 1 year to 1000 births	Zymotic Death Rate
1903	13,000	215	454	16·53	34·92	171	2·61
1902	12,722	193	398	15·17	31·28	188	1·10
1901	11,855	190	435	16·02	36·60	158	1·85

### No. Inhabited Houses, Population, &c., at Census, 1901, &c.

	Census.	Number Inhabited Houses.	Population.	Number Inhabitants per house
Rothwell Urban District Area	... 1901	... 2,487	... 11,702	... 4·70
Do.	do. ... 1891	... 1,296	.. 6,205	... 4·78
Do.	do. ... 1881	... 1,077	... 5,103	... 4·73

### Infant Mortality in various Wards.

	No. Inhabited Houses.	No. Inhabitants.	No. Inhab't's per house.	Births registered	Birth Rate.	Deaths under 1 year.	Deaths under 1 year per 1000 Births.
Urban Dis. Area	2,772	13,000	4·69	454	34·92	78	171
North Ward ...	496	2,286	4·61	64	27·99	13	203
South Ward ...	556	2,552	4·59	120	47·00	15	122
Stourton Ward...	580	2,816	4·86	89	31·60	22	204
Lofthouse Ward	582	2,700	4·64	103	38·14	15	145
Carlton Ward ...	558	2,656	4·76	78	29·35	13	166

## Deaths in various Wards.

	Popu- lation.	Deaths at all Ages.	Death- Rate.	Deaths under one Year.	Deaths under one year per 1,000 Births.	Zymotic Deaths.	Zymotic Death- Rate.
Urban Dis. Area	13,000	215	16.53	78	171	34	2.61
North Ward ...	2,286	36	15.74	13	203	2	0.87
South Ward ..	2,552	37	14.49	15	122	4	1.56
Stourton Ward ..	2,816	56	19.88	22	204	12	4.26
Lofthouse Ward	2,700	57	21.11	15	145	11	4.07
Carlton Ward .	2,656	29	10.91	13	166	5	1.88

## Sanitary Report.

Table C. which is duly filled in and appended to this report contains full particulars as regards Water Supply, Excrement Disposal, Sanitary Work during 1903, &c., &c.

## Water Supply.

The following extensions have been carried out during the twelve months ending 31st December last, viz :—

140 yards 2-inch C. I. main to Ellison's Houses, Stourton.  
 25 „ 3-inch „ Armitage Houses, Carlton Lane.  
 130 „ „ „ Church Field Houses.

285.—Total.

There are still 28 houses not connected with your mains, but as these are mostly situated in isolated positions they must of necessity continue to derive their supply from wells and rain-water cisterns. The quantity of water supplied to the various portions of your district amounted to 100,833,000 gallons, for the twelve months ending 31st December last. which is in the proportion of 21 gallons daily per head of the population. The supplies were derived from the following sources and in the following quantities, viz :—

Leeds Corporation	...	73,467,000 gallons	} Total gallons 100,833,000.
Morley „	...	26,836,000 „	
Swithens Pit	...	530,000 „	

The supply from Swithens Pit has now been discontinued as the supplies from Leeds and Morley have been sufficient to meet the demand. There is still occasionally a shortage in some parts of the Lofthouse Ward and some plan should be adopted which would ensure a constant and abundant supply for domestic purposes.

The following Table shows the number of houses in the different portions of your district which are now deriving their supply from wells, &c.



District.	No. Houses connected with the Mains.	No. Houses Not Connected
Rothwell ... ..	1,651	19
Carlton ... ..	533	2
Lofthouse ... ..	407	7
Thorpe ... ..	218	0
Totals ... ..	2,809.	28

### Drainage.

The following extensions have been carried out during the past twelve months, viz:—

60 yards	9-inch pipe sewer	at Lee Moor.
305	„ „ „	Haigh Road.
60	„ „ „	Church Fields.
52	„ „ „	Wood Lane.

Total 477 yards 9-inch pipe sewer.

In addition to above, 440 yards of 9inch pipe sewers have been laid in private streets.

In my last Report I made particular mention of the unsatisfactory condition of the Stourton sewers and urged the necessity for hurrying on the sewerage disposal scheme which your Sanitary Committee had then under consideration. Two Local Government Board Inquiries have lately been held for this purpose, and the scheme is now before the Local Government Board for their consideration. It is hoped the scheme will meet with approval and that very soon steps will be taken to remedy an evil which has been too long in existence and is rapidly becoming worse. In my remarks on Diphtheria—see page 7—I draw particular attention to the unsatisfactory condition of the main sewer in Pontefract Road, and point out that in its present condition it is a danger to the health of the inhabitants. There are still a number of privy middens in Stourton requiring reconstruction and several of these have for some time past been under the consideration of your Sanitary Committee, but the present condition of the Pontefract Road sewer prevents anything being done, as it would be unwise to connect water closets where it is not actually necessary.

Throughout your district satisfactory progress continues to be made with the rebuilding and reconstructing of defective privies and ash-pits and providing new ones. The various cow-sheds and slaughter-houses in your district have been visited by the Sanitary Committee, accompanied by the Medical Officer and Inspector, and with one or two exceptions all were found to be in a satisfactory condition. All the workshops in your district have been visited and inspected by your Medical Officer and Inspector. The workshops number 21 and include 4 bakehouses and 3 domestic workshops. All were satisfactory. The

following is a summary of the work done during the past year:—

Number of closets erected for New Houses ... 215

Kinds ..	{	Water Closets ...	129
		Waste Water Closets	10
		Privies ..	44
		Trough Closets ...	32

Total ... 215

Number of Ashpits erected for New Houses ... 100

Kinds	{	Dry Ashpits ...	76
		Privy Ashpits ...	24

100

Number of Sinks disconnected ... 51

„ „ trapped ... 28

The work of connecting the house drains with the sewer is being steadily persevered with, and during the past year 79 have been properly connected. The following table furnishes details:—

Houses.	Number.	No. yards 6-inch Drains.	No. yards 4-inch Drains.
New ... ..	79	4,727	465

In all, 917 yards have been added to the existing sewers and 5,192 yards 6-inch and 4-inch drains in connection with new and old houses have been completed.

### **Infectious Diseases Hospital.**

The Infectious Diseases Hospital is rapidly nearing completion and will be ready for use in a few months.

### **Mortuary.**

A suitable site has now been obtained for a Public Mortuary and steps are being taken to carry out the work at an early date.

### **Sanitary Inspector's Report.**

The Sanitary Inspector's Report, giving full and detailed information regarding the work done in his department during the past year, will be found at page 19.

In conclusion I beg to thank your Council for their continued kindness and courtesy and I would especially thank the Chairman and members of the Sanitary Committee for their loyal support in carrying out needed reforms.

Yours respectfully,

**Robert Stevenson,**

Medical Officer of Health.

Rothwell, January, 25th, 1904.

TABLE I.

Vital Statistics of Whole District during 1903 and previous years.

*Name of District*—ROTHWELL URBAN.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
				UNDER 1 YEAR OF AGE.		AT ALL AGES.			
		Num- ber.	Rate*	Num- ber.	Rate per 1,000 Births regis- tered.	Num- ber.	Rate*	Num- ber.	Rate*
1893	10,800	358	37·8	47	181	164	16·3	164	16·3
1894	11,250	371	32·9	64	172	174	15·4	174	15·4
1895	11,550	396	34·2	61	154	186	16·1	186	16·1
1896	11,850	406	34·2	61	150	185	15·6	185	15·6
1897	12,200	397	32·5	58	146	156	12·8	156	12·8
1898	12,750	366	28·7	38	103	136	10·6	136	10·6
1899	13,200	435	32·9	66	151	197	14·9	197	14·9
1900	13,600	388	28·5	73	180	208	15·2	208	15·2
1901	11,855	435	36·6	69	158	190	16·0	190	16·0
1902	12,722	398	31·28	73	183	193	15·17	193	15·17
1903	13,000	454	34·92	78	171	215	16·53	215	16·53

\* Rates calculated per 1,000 of estimated population.

Total population at all ages —11,702.

Number of inhabited houses 2,487.

Average number of persons per house—4·29

} At Census of 1901.

Area of District in acres (exclusive of area covered by water) —5,742.

Is the Union Workhouse within the District?—Yes.



TABLE II.

Vital Statistics of separate Localities in 1903 and previous years.

*Name of District*—ROTHWELL URBAN.

Name of Locality.—ROTHWELL URBAN.						
YEAR.			Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.
1893	...	...	10,800	358	164	47
1894	...	..	11,250	371	174	64
1895	...	...	11,550	396	186	61
1896	...	...	11,850	406	185	61
1897	...	...	12,200	397	156	58
1898	...	...	12,750	366	156	58
1899	...	...	13,200	435	197	66
1900	...	...	13,600	388	208	73
1901	...	...	11,855	435	190	69
1902	...	...	12,722	398	193	73
1903	...	...	13,000	454	215	78

TABLE III.

ROTHWELL URBAN DISTRICT.

Cases of Infectious Disease notified during the Year 1903.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						
	At all Ages.	At Ages—Years.					
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards
Small-pox ...	1	...	...	...	1	...	...
Diphtheria ...	44	...	13	19	8	4	...
Mem'b'nous Croup	2	...	1	1	...	...	...
Erysipelas ...	12	...	...	1	4	4	3
Scarlet fever ...	56	...	13	35	6	2	...
Enteric fever ...	29	...	2	5	13	9	...
Continued fever	1	...	...	...	1	...	...
Totals ...	145	...	29	61	33	19	3

Isolation Hospital—Sty Bank.

**TABLE IV.**  
**ROTHWELL URBAN DISTRICT.**  
**Causes of, and Ages at, Death during Year 1902.**

CAUSES OF DEATH.	Deaths in or belonging to whole District at subjoined Ages.						
	All ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.
Measles ... ..	4	1	3	...	...	...	...
Scarlet fever ... ..	2	...	...	2	...	...	...
Whooping-cough ... ..	5	3	2	...	...	...	...
Diphtheria&mem'b'nous croup	9	...	3	4	2	...	...
Fever—Enteric . . . .	6	...	1	...	1	4	...
Diarrhœa ... ..	3	2	...	...	...	1	...
Enteritis ... ..	4	4	...	...	...	...	...
Erysipelas ... ..	1	1	...	...	...	...	...
Phthisis .. . . .	8	...	...	...	2	6	...
Other tubercular diseases ...	20	9	7	3	1	...	...
Cancer, malignant disease ...	7	...	...	...	...	5	2
Bronchitis ... ..	25	13	2	...	1	2	7
Pneumonia .. . . .	4	1	...	...	1	2	...
Other diseases of Respiratory organs ... ..	13	6	6	...	...	1	...
Alcoholism—Cirrhosis of liver	1	...	...	...	...	1	...
Premature Birth ... ..	14	14	...	...	...	...	...
Heart Diseases ... ..	25	2	...	3	...	10	10
Accidents ... ..	10	...	1	4	1	4	..
Suicides .. . . .	3	...	...	...	...	2	1
Congenital Debility ... ..	10	10	...	...	...	...	...
Dentition, Convulsions ...	11	9	2	...	...	...	...
All other causes ... ..	30	3	2	3	2	8	12
All causes ... ..	215	78	29	19	11	46	32

## TABLE C.—1903.

## ROTHWELL URBAN SANITARY DISTRICT.

MEDICAL OFFICER OF HEALTH, ROBERT STEVENSON. Salary £60.

SANITARY INSPECTOR, ERNEST FREDERICK MOORHOUSE. Salary £110 10s. What other positions does the Sanitary Inspector fill?—Inspector of Canal Boats and Water.

## WATER SUPPLY—

Quality?—Fair. Action on Lead?—None.

Any extensions or change during 1903?—145 yards 3in. and 140 yards 2in. mains. Any inadequacy in any part?—Lofthouse occasionally.

## SEWERAGE—

Is the district systematically sewered?—Yes. Is rainfall excluded?—Partly.

Extensions or Improvements during 1903?—917 yards 9in. sewer, 12 manholes, and 7 ventilating shafts.

Any inadequacy, and where?—At Stourton.

## SEWAGE DISPOSAL—

System Adopted?—Chemical treatment and land filtration. Any extensions in 1903?—Four acres.

## SCAVENGING—

Are the privy-middens, ash-places, etc., cleansed by Sanitary staff, by Contractors, or by owners and Tenants?—Cleansed by Sanitary staff and Contractors.

Number of each type of receptacle?—Open privy-middens 180. Covered privy-middens 763. Pail or tub closets?—30. W.C. 421. Other W.C.'s. 247. E.C. 4.

## ADOPTIVE ACTS—

Acts adopted during 1903 (or parts)?—None.

Any diseases added to Notification schedule *e.g.*, Measles, Chicken-pox, &c.?—None.

Any system of voluntary notification of Phthisis?—None.

## BY-LAWS—Any adopted or sanctioned during 1903?—

(a) Under the Public Health Act, 1875—None.

(b) Under the Public Health Acts (Amendment) Act, 1890—None.

REGULATED BUILDINGS, TRADES, &c.	Number		General Conditions.	Legal Proce'd- ings (if any).
	Regis- tered.	In- spected		
Common Lodging Houses ... ..	...	...	...	
Canal Boats ... ..	...	43	Good	
Slaughter Houses ... ..	7	7	Very Good	
Cowsheds ... ..	61	61	Good	
Offensive Trades :				
1 Tripe and 2 Fat Extractors	3	3	Good	

## ISOLATION HOSPITAL—

Name and Situation of Hospital for Small-pox cases—Sty-Bank Hospital, Rothwell. Name and Situation of Hospital for general infectious diseases—Rothwell, Methley and Hunslet Joint Hospital, Rothwell.

Does the Sanitary Authority provide antitoxin (gratis) for diphtheria cases?—Yes.



## SCHOOLS—

No. closed during 1903 on account of sickness—2. Total duration of such closure—Five weeks.

Any ailment or contagious disease associated particularly with school life during 1903?—Diphtheria at the Stourton Schools.

## FACTORY AND WORKSHOP ACT—

No. of Workshops in the district, as per Register—21. No. of inspections made during 1903—21. Legal proceedings—None.

No. of Bakehouses included in above—4. No. of Underground Bakehouses in district—None.

No. of Domestic Workshops in above—3. No. of Domestic Factories in the district—None. No. of Lists of Outworkers' received—None.

Any action as to unwholesome or infected Outworkers' premises—None.

DWELLINGS—Number of Houses built during 1903—79. General character—Through. Any houses unfit for habitation?—None. Any overcrowding of persons in houses?—1.

Any action taken under the Housing of the Working Classes Acts?—Yes. Two closed.

Is house-to-house inspection systematically made?—Yes. Are records kept?—Yes.

## NUISANCES—

Total No. of Nuisances in hand at close of 1902—19. At close of 1903—9. Reported during 1903—103. Abated during 1903—445.

Total No. of Legal Notices served for Abatement of Nuisances during 1903—13.

Total No. of Summonses or other Legal Proceedings—None.

No. of Sink wastes disconnected during 1903—51.

No. of "Closets" newly constructed during 1903—215. Kinds—44 privies

129 w.c.'s, 10 w.w.c.'s, 32 t.c.'s.

No. of Closets reconstructed during 1903—35 Privy Middens. Kinds—39 privies, 24 of which converted into w.c.'s, and 15 reconstructed; 27 ashpits, of which 7 re-built, 3 covered in, and remainder reconstructed in various ways.

What action has been taken in regard to the following matters?

Seizures of Unsound Food, 0. Prosecutions, 0.

Samples under Sale of Food and Drugs Acts, 17. Prosecutions, 1.

Has there been any poisoning during 1903 attributable to arsenical beer?—None.

River Pollution, 0.

Smoke observations taken, 41. Legal Notices, 0. Summonses, 0.

Burial Grounds—No. in District, 3. Any need for extension?—No.

Mortuaries—No. in District (a) for accidents, 0; (b) other—one to be erected.

BIRTHS during 1903—Males 232, Females 222. Total 454.

Number illegitimate, included in the above, 8. Number of Still Births (not included), 0.

DEATHS during 1903—(1) GROSS DEATHS, *i.e.*, Total actually registered in district, without any correction, 215. (2) *Nett Deaths* on which the rates are calculated—Males 111, Females 104. Total 215.

Number uncertified, included in the above—None.

Sanitary Requirements of District, and Suggestions of Medical Officer of Health:—Stourton Sewage and Small Pox accommodation.

# Report by E. F. Moorhouse,

## INSPECTOR OF NUISANCES.

Gentlemen,

I submit to you my report on the Sanitary work done in my Department during the past year, and to facilitate comparison, the report is in the same order as before.

### Correspondence.

Number of letters written and notices served, 499.

Number of inspections to drainage	...	...	...	46
„ inspections and visits for abatement of nuisances	...	...	...	222
„ appointments kept	...	...	...	139

### Nuisances.

Number of nuisances abated	...	...	...	445
„ complaints registered...	...	...	...	103
„ unabated nuisances on books December 31st, 1903	...	...	...	9

Details of nuisances abated :---

No. of stopped drains cleared	...	31	No. of offensive accumulations removed	...	15
„ stopped water closets cleared	...	5	„ ashpit doors repaired	...	13
„ stopped waste water closets cleared	...	24	„ damp cellars drained	...	15
„ defective drains completely relaid	...	20	„ overcrowded houses abat'd	...	1
„ existing house drains ventilated	...	6	„ defective house floors relaid	...	13
„ existing house drains disconnected...	...	51	„ new cesspools constructed for relaid drains	...	2
„ new sink pipes inserted	...	15	„ houses drained to cesspools, no drain previously	...	6
„ sink pipes trapped	...	15	„ new urinals erected	...	3 blocks
„ new sinks	...	3	„ defective water supply from defective pipes	...	10
„ intercepting chambers to existing drainage	...	11	„ closets lime washed	...	101
„ intercepting traps to existing drainage	...	11	„ manure chambers built	...	5
„ defective roofs repaired	...	28	Miscellaneous	...	17
„ defective eaves spouting repaired	...	29			

Old drains tested { Found satisfactory ... 1 } 11  
 { Found defective ... 10 }

In my visits and inspections of houses in the district, I frequently find householders very reluctant to admit the existence of nuisances in or about their houses and even nuisances which are undoubtedly a serious menace to the health of the occupiers are minimised or shielded from me, whether purposely or unknowingly, is sometimes difficult to tell. The reason of this seems to be an objection to any discomfort



they may temporarily be subjected to and the fear of increased rents for improvements carried out. It cannot be too deeply impressed upon all occupiers the ultimate benefit such improvements must have upon the public health.

### Scavenging.

During the past year, 8,941 loads of refuse have been removed from the ashpits in your district, this being an increase of 1,163 loads upon last year. The total cost of nightsoil removal for the same period including both manual and team labour, has been 1s. 4½d. per load of refuse, and at an annual cost of 9s. 10d. per ashpit, as against 9s. 9½d. for 1902, and 10s. 9½d. for 1901.

The scavenging has been systematically carried out, and the refuse satisfactorily disposed of.

The whole of the sewers in the district have been periodically flushed, and special attention has been given to the sewers in Stourton, these having been cleansed and flushed every two months. The cesspools and house and street gullies have been cleansed and disinfected regularly.

Steady progress continues to be made in improving and reconstructing upon modern principles the existing conveniences in your district.

The old conveniences at the schools at Lofthouse, Robin Hood and Carlton have all been done away with and new water carriage conveniences have been built upon the most modern system. The whole of the drainage at these schools has also been entirely rearranged and reconstructed.

#### Summary of Conveniences in the district:—

No. of ashpits in use in Dec.,	No. of trough closets flushed
1903 ... .. 1253	automatically with
„ ashpits open ... .. 184	town's water ... 131
„ ashpits covered in ... 1069	„ trough closets flushed
„ dry ashpits ... .. 310	by sanitary staff,
„ privies ... .. 1466	with towns water ... 14
„ combined privies and	„ urinals cleansed by
ashpits ... .. 943	sanitary staff ... 1
„ water closets ... .. 421	„ cesspools emptied by
„ waste water closets ... 102	sanitary staff ... 15

The following is a list of the new Sanitary conveniences built in place of old conveniences condemned.

2 Blocks consisting of 1 Privy and 1 Ashpit.

4 „ „ 2 „ „

3 „ „ 13 Trough Closets and 1 Ashpit.

In addition 7 new ashpits have been built in place of old conveniences condemned, 8 ashpits have been reconstructed, 24 privies have been converted into water carriage conveniences and 8 wet ashpits have been converted into dry ones. The above provides extra sanitary accommodation to the extent of 5 privies, 2 ashpits and 18 trough closets.



### **Infectious Disease.**

The past year has been an exceptionally heavy one in this respect and has entailed an enormous amount of work on my department. Each case has been visited, supplied with disinfectants, and every effort made to trace the disease to its source and prevent its further spreading. A large amount of time and labour was necessary on my part in the collection and compiling of information bearing upon the outbreaks at Stourton, Thorpe and Robin Hood. The outbreak of smallpox at Stourton was promptly dealt with and no further case occurred. A number of smallpox contact cases have been reported to us, and all have been successfully traced and enquired into.

Satisfactory arrangements have been made for the storage of disinfectants at various central parts of the district, so that now every householder has a supply of disinfectants near at hand if needed. This brings the number of depôts for disinfectants up to five, which I think will meet all requirements.

The disposal of fœcal matter from Typhoid patients is of the utmost importance and with the object of ensuring that all such are properly disinfected and disposed of, a number of special portable air-tight pails for this purpose have been purchased during the year. This system has been a great improvement and a boon to the nurses attending Typhoid cases.

Two hundred and seventy-one visits have been made in connection with infectious diseases, and 111 houses, 1 school, 3 vehicles and the Stye Bank Hospital have been disinfected. Special attention was paid to the scavenging and cleansing arrangements where outbreaks of infectious disease occurred, the whole of the conveniences in that portion of the district being at once cleansed and disinfected and the house and street gullies were cleared, disinfected, and the sewers were flushed.

### **Dairies, Cowsheds, and Milkshops.**

Number of cowkeepers on register	...	...	...	...	...	34
„ purveyors of milk now on register (not cowkeepers)	...	...	...	...	...	16
„ cowsheds now on register	...	...	...	...	...	61

All the cowsheds and milkshops in the district have been regularly visited and examined to ensure cleanliness and compliance with the regulations so far as is reasonably practicable.

Steady progress continues to be made in still further improving the worst cowsheds, but this must necessarily be largely a question of time before all can be brought to an efficient standard.

### **Slaughter Houses.**

All the Slaughter-houses in the district, 7 in number, have been frequently visited at irregular times, and I continue to find them clean and well attended to.

### **Offensive Trades.**

There are 3 Offensive Trades in the district, namely, 2 fat extractors and 1 tripe dresser, and also 12 fried fish shops, all of which in my visits I have found satisfactory.

### **Food and Drugs Act.**

17 samples of new milk have been taken by me during the past year, their quality, according to analysis, being as follows:—Genuine 3, Fair Quality 11, Inferior Quality 2, Adulterated 1.

The adulteration was to the extent of 7 parts of added water, and the milk seller was prosecuted and fined 5s. and £1 13s. 6d. costs.

### **Canal Boats.**

43 Canal Boats have been inspected, and all were satisfactory except 3. Notices were served on the owners and the defects remedied.

### **Factory and Workshop Act.**

I have visited the 17 workshops and 4 bakehouses in the district and found them clean and the requirements of the Act duly attended to.

### **Smoke Abatement.**

Public attention has repeatedly been drawn to the danger to which the public health is subjected, and the despoiling of vegetation, to say nothing of the waste of fuel arising from the continued emission of black smoke from the chimneys of works, etc.

It has become an established fact that the emission of black smoke from such chimneys is unnecessary and wasteful, and measures will have to be taken by Municipal Authorities to prevent or at least minimise this evil. With this object in view, manufacturers and owners of works in your district have had their attention drawn to this matter, and have been requested to give the subject their careful consideration. I have made 41 observations of 13 chimneys, and a record is kept giving the result of each observation. These are reported to the Sanitary Committee, and the worst offenders written to.

### **General.**

I have taken several samples of water and trade effluents for analysis. Steady progress continues to be made in carrying out general and varied improvements in the district, and this must necessarily continue to be so as the result of the advance of sanitation. It has been an exceptionally busy year for me, the outbreaks of smallpox, typhoid fever, and diphtheria causing very much additional necessary work, and entailing a vast amount of labour and time on my part.

In conclusion, I beg to acknowledge my appreciation of the courtesy of the members of the Council and also my thanks to the Medical Officer of Health for his able and courteous help in the carrying out of my duties.

I have the honour to be,

Yours obediently,

**Ernest Frederick Moorhouse,**  
Assoc. San Inst.





